

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@watson.wustl.edu  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium ([info@image.llnl.gov](mailto:info@image.llnl.gov)) for further information.  
MGI:937347  
Seq primer: custom primer used  
High quality sequence stop: 510.

Location/Qualifiers

1. .576

/organism="Mus musculus"  
/strain="C57BL"  
/db\_xref="taxon:10090"  
/clone\_image:I499743"  
/clone\_lib="Sugano mouse liver mlia"  
/sex="female"  
/dev\_stage="adult"  
/lab\_host="DH10B"

/note="Organ: liver; Vector: pME18S-FL3; Site.1: DraIII  
(CACATGTCTG); Site.2: DraIII (CACCATGTG); 1st strand cDNA  
was primed with an oligo(dT) primer  
[ATGGGCCCTTTTTTTTTTTT]; double-stranded cDNA was  
ligated to a DraIII adaptor [TGTTGGCTACTGG], digested  
and cloned into distinct DraIII sites of the pME18S-FL3  
vector (5' site CACATGTCTG, 3' site CACCATGTG). XhoI should  
be used to isolate the cDNA insert. Size selection was  
performed to exclude fragments <1.5kb. Library  
constructed by Dr. Sumio Sugano (University of Tokyo  
Institute of Medical Science). Custom primers for  
sequencing: 5' end primer CTTCGTCTCTAAAGCTGC and 3' end  
primer CGACCTCGAGCTCGAGCAC."

132 a 144 c 183 g 117 t

BASE COUNT  
ORIGIN

Query Match	83.5%	Score 575	DB 42	Length 576
Best Local Similarity	100.0%	Pred. No. 2.3e-138		
Matches 575	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY 1	gtgcgctgaggtcccccgcgcgacgcactcaccatgctgcgctctgaactcttgggtgcac	60		
DB				
2	gtcgcctgaggtcccccgcgcgacgcactcaccatgctgcgctctgaactcttgggtgcac	61		
DB				
QY 61	gcgcgaactgggtgatgtctctcctcgtggtgcgctgtctgtcttcttgcgcgagacgtccgc	120		
DB				
62	gcgcgaactgggtgatgtctctcctcgtggtgcgctgtctgtcttcttgcgcgagacgtccgc	121		
DB				
QY 121	gcaggaacctcgcgagatgggtttctctgtgagtacacaaacagatcctctgtgaagtgcct	180		
DB				
122	gcaggaacctcgcgagatgggtttctctgtgagtacacaaacagatcctctgtgaagtgcct	181		
DB				
QY 181	cagggaatgtctcctgtctgtgtgcgaatgagaacaagcgctgtatggactaccagtgag	240		
DB				
182	cagggaatgtctcctgtctgtgtgcgaatgagaacaagcgctgtatggactaccagtgag	241		
DB				
QY 241	gaaatcttgcctcctgtctctctctgtaaatgagctcgcgtcgtggtggcgatgctg	300		
DB				
242	gaaatcttgcctcctgtctctctctgtaaatgagctcgcgtcgtggtggcgatgctg	301		
DB				
QY 301	ggtgaacttcgagcccttgatcatcaccatgtcggctcctggggggcctctgtcctcctggg	360		
DB				
302	ggtgaacttcgagcccttgatcatcaccatgtcggctcctggggggcctctgtcctcctggg	361		
DB				
QY 361	catcactgtgtgtctgtactgctgcgcgcggaagaagaccggaaaccagacaagag	420		
DB				
362	catcactgtgtgtctgtactgctgcgcgcggaagaagaccggaaaccagacaagag	421		
DB				
QY 421	cgatgagcgggccaatgagagagcaggagagagagtgctgcgcgaggaagagggagggc	480		
DB				
422	cgatgagcgggccaatgagagagcaggagagagagtgctgcgcgaggaagagggagggc	481		
DB				
QY 481	ggaaatgaagtcaagacatgatgaatacgcggaaaaatacctggtctgtttaaggaacaaa	540		
DB				

RESULT 1  
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 DEFINITION  
 A1119658 576 bp mRNA EST  
 u0504.y1 Sugano mouse liver m1ia Mus musculus cDNA clone  
 IMAGE:1499743 5' similar to SW:SGPH\_HUMAN P53801 PUTATIVE SURFACE  
 GLYCOPROTEIN PRECURSOR. ; mRNA sequence.  
 A1119658  
 'CESSION  
 'RSTON A1119658.1 GI:3519982  
 'YWORDS EST.  
 'URCE house mouse.  
 ORGANISM Mus musculus.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,  
 Geisel,S., Kucaba,T., Lacy,M., Martin,J., Morris,M.,  
 Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,  
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and  
 Waterston,R.  
 TITLE The WashU-HMI Mouse EST Project  
 JOURNAL Unpublished (1996)  
 'MENT On Jan 9, 1998 this sequence version replaced gi:693487.  
 Contact: Marra M/Mouse EST Project  
 WashU-HMI Mouse EST Project  
 Washington University School of Medicine

QY	1	gtgcctgaggtcccccgacgaacgaactaccatcggcctgtataaccttgggctaac	60
Dd	5	gtgccttgaggtcccgccgacgacgacactcacatggcgccctgctaactttgggctgac	64
QY	61	gcgcactgggtgatctactctcctggtagcctgtcgttcgttcctgtcgcggagcctcgc	120
Dd	65	gccgcactgggtgatctctcctggtagcctgtcgttcgttcctgtcgcggagcctcgc	124
QY	121	gcsgaaacctccgagagtgggttgcctctgattacacaacagactcctgtgaagagtgcct	180
Dd	125	gcaggaaacctccgagagtgggttgcctctgattacacaacagactcctgtgaagagtgcct	184
QY	181	caggaatgtctctgtctgttggtagcaatgagaacaaggcgtgtatggactaccagtgag	240
Dd	185	caggaatgtctctgtctgttggtagcaatgagaacaaggcgtgtatggactaccagtgag	244
QY	241	gaaaaattgccccctctctctctctgtaaatgaattccgctcgtcgtggcggtatgcgtg	300
Dd	245	gaaaattcttccccctctctctctctgtaaatgaattccgctcgtcgtggcggtatgcgtg	304
QY	301	ggtgaacctgagccttgatcatcaccatgctgcctcgggggggtctctgtctcctggtg	360
Dd	305	ggtgaacctgagccttgatcatcaccatgctgcctcgggggggtctctgtctcctggtg	364
QY	361	catactgtgtgtctgtctactgtcgcgcggcggaagaagccggaagccagagacaag	420
Dd	365	catactgtgtgtctgtctactgtcgcgcggcggaagaagccggaagccagagacaag	424
QY	421	cgatgagcggccatgagagagcagagagagagagagtcgcccagagaggaagaggggc	480
Dd	425	cgatgagcggccatgagagagcagagagagagagagtcgcccagagaggaagaggggc	484
QY	481	ggaatgaagtcaagcatgatgaatcaggaaaaataacggtctctgtttaagagacaaa	540
Dd	485	ggaatgaagtcaagcatgatgaatcaggaaaaataacggtctctgtttaagagacaaa	544
QY	541	cccgtatgagaagttc 556	
Dd	545	cccgtatgagaagttc 560	

RESULT 3  
AW106707

LOCUS	um32e10.v1 Sugeno mouse kidney mRna	EST	20-OCT-1999
DEFINITION	IMAGE:2336266.5' similar to SW-C211 HUMAN P53801 PUTATIVE SURFACE GLYCOPROTEIN C21ORF1 PRECURSOR ; mRNA sequence.		
ACCESSION	AW106707.1	GI:6077507	
VERSION	AW106707.1		
KEYWORDS	EST.		
SOURCE	Mus musculus. house mouse.		
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
REFERENCE	1 (bases 1 to 590)		
AUTHORS	Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Rohm,S., Shin,I., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and Wilson.R.		
TITLE	The WashU-NCI Mouse EST Project 1999		
JOURNAL	Unpublished (1999)		
COMMENT	On Dec 20, 1995 this sequence version replaced gi:1135005. Other_ESTs: um32e10.xl Contact: Marra M/WashU-NCI Mouse EST Project 1999 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LML ; contact the IMAGE Consortium ( <a href="mailto:info@image.lml.gov">info@image.lml.gov</a> ) for further information.		



FEATURES	source
POLYA-Yes.	
Location/Qualifiers	
1. 396	
/organism="Mus musculus"	
/strain="C57BL/6J"	
/db_xref="taxon:10090"	
/clone="U1-M-AP0-abm-e-12-0-UT"	
/clone_lib="NIH_BMAP_MST"	
/dev_stage="27-32 days"	
/lab_host="DH10B (Life Technologies)"	
/note="vector: pr73d-Pac (Pharmacia PolyLinker; Site 1: Not I; Site 2: Not I)"	
NIH_BMAP_MST library is a non-constructed from mouse striatum nucleotides present between the oligo-dT track. The library was by Ronaldo, Lennon and Soares, 791-806, 1996. Tissue provided by Zivic-Miller Laboratories.	
TAG LIB=NIH_BMAP_MST	
TAG TISSUE=corpus-striatum	
TAG_SEQ=ACGGC"	
107 a	106 c 110 g 73 t
BASE COUNT	
ORIGIN	

1214 cagccctttgccaggatctgtgcccagagccctctcttagtggttaggcagcct 1273  
|||||  
396 CAGCCCTTTGCCAGGATCTGTGGCCAGAGCCCTCTGCTCTTAGTGGTGGATAGCTACGCT 337  
|||||

TEL: 301 443 1706  
Fax: 301 443 9890  
Email: [MESt@mail.nih.gov](mailto:MESt@mail.nih.gov)

The sequence contained an oligo-dT track that was present in the oligonucleotide that was used to prime the synthesis of first strand cDNA and therefore this may represent a bonafide poly A tail. The sequence tag present in the cDNA between the NotI site and the oligo-dT track served to verify it as a clone from the non-normalized corpus striatum library cDNA library preparation: M.B. Soares Lab Clone distribution: NIH BMAP cDNA clones will be made available by the means that is soon to be determined. When NIH determines the means for distribution of the BMAP cDNA clones, this record will be updated accordingly when that means is determined. Seq primer: M13 Forward

AA260696

LOCUS

## Locals

### DEFINITION

**0000**

ACCESSION  
NUMBER

NOTES  
REVISED

## COMMON TWEED SOURCE

## ORGANISM

## NOTATIONS

## REFERENCE

## AUTHORS



AA222504 mw20c06.1  
AA138598 mq9c12.1  
AA086948 mk19n02.1  
AA920393 vx95g05.1  
AA794668 vu63a03.1  
W48313 mc88a06.1  
W48312 mc88a05.1  
AA125873 mf04c11.1  
AA980537 ua4e01.1  
AA289996 vb15c01.1  
W35730 mc53a05.1  
W82582 mf04c11.1  
W07965 mb49a01.1  
AA734346 vv24f04.1  
AA002502 mg45a01.1  
AA796431 vs95d07.1  
AA166305 mt74c07.1  
H34531 EST111546 R  
H34007 EST110503 R  
AA344336 EST30101  
W48740 ze42e01.1  
AQ164344 HS\_2171\_A  
AV087480 AV087480  
AQ041168 C17-HSP-2  
AW08949 W875C10.X  
AQ790854 HS\_3177\_A  
AL120924 DKEP762B  
AA036991 zk30g06.1  
B87906 RPC111-30N1  
Z24879 HSB68A062 S  
W47816 mc90f06.1  
AQ129503 HS\_3041\_B  
AI153490 uc50b04.1  
AI155906 ue07f07.1  
AI386330 mn94e08.Y  
C22416 C22416 R1ce  
AA387894 vc87h2.1  
T15698 IBI758 Infa  
AF072217 AF072217  
AU042898 AU042898  
AW122202 UI-M-BH2  
AA003499 T3188 MVA  
T43407 6670 Lambda

ALIGNMENTS

RESULT 1  
AA636311. 450 bp mRNA EST 22-OCT-1997  
LOCUS vq7e07.sl Knowles Solter mouse 2 cell Mus musculus cDNA clone  
DEFINITION IMAGE:1108260 5', mRNA sequence.  
AA636311  
VERSION AA636311.1 GI:2560090  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus.  
REFERENCE Eukaryota; Mammalia; Chordata; Craniata; Vertebrata; Mammalia;  
AUTHORS Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
1 (bases 1 to 450)  
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,  
Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,  
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,  
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and  
Waterston, R.  
TITLE The WashU-HMI Mouse EST Project  
JOURNAL Unpublished (1996)  
COMMENT On Sep 12, 1996 this sequence version replaced gl:1405135.  
Contact: Marra M/Mouse EST Project  
WashU-HMI Mouse EST Project  
Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
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Email: mouseest@watson.wustl.edu  
This clone is available royalty-free through LNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
MGI:608428  
High quality sequence stop: 425.  
Location/Qualifiers  
1. 450  
/organism="Mus musculus"  
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/tissue\_type="embryo"  
/dev\_stage="2-cell"  
/lab\_host="DH10B"  
/note="Organ: embryo; Vector: pBluescribe (modified);  
Site:1: MluI; Site:2: SalI; Cloned unidirectionally from  
mRNA prepared from 13,500 2-cell stage embryos. Primer:  
SalI(dT): 5'-CGGTGACCGCCGACCGTCTTTT-3'. CDNAS  
were cloned into the MluI/SalI sites of a modified  
pBluescribe vector using commercial linkers (NEB).  
Average insert size: 1.2 kb.  
BASE COUNT 119 a 88 c 136 g 107 t  
ORIGIN

Query Match 31.4%; Score 450; DB 36; Length 450;  
Best Local Similarity 100.0%; Pred. No. 2.le-231;  
Matches 450; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 586 atcttgggggagtggtttgggtggcagctcttgggtcttaggttaagttaataca 645  
DB 1 ATCTGGGGGAGTGTGTTGGTGGGAGTCTTGGAGGCTTCTAGGTAAATCA 60  
QY 646 gagaatggagcagacagcacaacagctcttggggagagagctgggaagttagtggaa 705  
DB 61 GAGAAATGGAGCAGACAGCACAACAGCTCTTGGGAGGAGAGGCTGGGAGTAGATGGGA 120  
QY 706 agtggcattctgaaacctcaacagtgtagcatccaggttccaggtgcactacacacaaa 765  
DB 121 AGTGGCATCTCTGAAACCTCAACAGGTGAGCATCCAGTTCAGGTGACACACAAA 180  
QY 766 caccgagtggtgagttcattgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 825  
DB 181 CACCGATGTGCGAGTTCATGTCGAGTGGAGCAGTGGAGCAGTGGAGTGGAGTGGAG 240  
QY 826 atacatcccatcactcactcactcactcactcactcactcactcactcactcactcactc 885  
DB 241 ATACATCCCATCTCCACTACTGCAAGAGCGGCTCTGCTCTCTCTCTCTCTCTCTCT 300  
QY 886 agacacagtggtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgagtgag 945  
DB 301 AGACACAGTGTGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGG 360  
QY 946 agaagtcagcagaatagattctctgagctgagctgagctgagctgagctgagctgagctgag 1005  
DB 361 AGAATGAGCAATAGATCTCTGAGACTGGCCATGAGGATAGGATAGGATAGGATAGG 420  
QY 1006 ggggattcactgactcactgattttcagagcat 1035  
DB 421 GGGGATTCAGTCACTAGTTCATGAGCAT 450

RESULT 2  
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LOCUS AA222504 498 bp mRNA EST 18-FEB-1997  
DEFINITION mw20c06.r1 Soares mouse 3NME12 5 Mus musculus cDNA clone  
IMAGE:671242 5', mRNA sequence.  
ACCESSION AA222504  
VERSION AA222504.1 GI:1842805





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189	Qy	189	ggacgttcccttcacagagaaaagatittgagaacggtcctcagaacatacacaacctga	248
197	Db	197	GGACGTTCCCTTCACAGAGAAAGATTTTGAGACGGTCTCAGAACATATACAACTGTA	256
249	Qy	249	cgagcaagtacgtacaaactgtttcatcgccgcgggcctctacctctctctcgaggctt	308
257	Db	257	CGAGCAAGTACGTACAACTGTTTCATCGCGCGGGCGCTACCTCTCTCTCGAGGCTT	316
309	Qy	309	ctccttctgcgaagtgtgtctcaaacgacgaaggaatacatagtggtgcctagacgcggt	368
317	Db	317	CTCCTTCTGCAAGTTCGTCTCAACAAGCGCAAGGAATACATGTGTGGCTAGAGCGCGGT	376
369	Qy	369	ccgctctcctcccccagcccccttcctattaaagactccgcagactccgtccccactc	428
377	Db	377	CCGCTCTCTCCCTCCCCAGCCCCCTTCTCTATTTAAAGACTCCGAGACTCCGTCCTCCACTC	436
429	Qy	429	atctggcgctcctttgggacttgtgaccctagcgagacgttcctcctggccctgcataaact	488
437	Db	437	ATCTGGGCTCTTTGGGACTTGTGACCCTAGCGAGAGGTCATCTCGTGGCCCTGCAAAAC	496
489	Qy	489	gcgccagcctctcggagagacga	513
497	Db	497	GCGCCACGCTCTGGAGGACCGA	521

RESULT	3
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LOCUS	450 bp mRNA EST 08-JUL-1998
DEFINITION	uc83el12.y1 Sugano mouse kidney mKia Mus musculus cDNA clone IMAGE:1432270 5' similar to WP:F49C12.12 CE03372 ; , mRNA sequence.
ACCESSION	AIO49344
VERSION	AIO49344.1 GI:3297631
KEYWORDS	EST.
SOURCE	mouse mouse.
ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS	1 (bases 1 to 450) Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Gelsel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theisinger,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and Waterston,R.
TITLE	The WashU-HHMI Mouse EST Project
JOURNAL	Unpublished (1996)
COMMENT	On Jan 14, 1998 this sequence version replaced gi:1797181. Contact: Marra M/Mouse EST Project WashU-HHMI Mouse EST Project Washington University School of MedicineP 4414 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNL; contact the IMAGE Consortium ( <a href="mailto:info@image.llnl.gov">info@image.llnl.gov</a> ) for further information. MGI:916338 putative full length read vector to vector length is Seq primer: custom primer used High quality sequence stop: 449. Location/Qualifiers 1..450 /organism="Mus musculus" /strain="C57BL" /db_xref="taxon:10090" /clone=IMAGE:1432270"
FEATURES	
source	

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db    561 GCGGTTCCCTCAAA 574

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IMAGE:1922628 5' similar to WP:F49C12.12 CE03372 ; , mRNA sequence.
A1526757      A1526757.1 GI:4440892
EST.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (Bases 1 to 521)
Marra.M., Hillier.L., Kucaba.T., Martin.J., Beck.C., Wylie.T.,
Underwood.K., Stepcoe.M., Theising.B., Allen.M., Bowers.Y.,
Person.B., Swaller.T., Gibbons.M., Pape.D., Harvey.N., Schurk.R.,
Ritter.E., Kohn.S., Shin.T., Jackson.Y., Cardenas.M., McCann.R.,
Waterston.R. and Wilson.R.
The WashU-NCI Mouse EST Project 1999
Unpublished (1999)
On May 18, 1998 this sequence version replaced gi:3138333.
Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:978920
Seq primer: custom primer used
High quality sequence stop: 503.
Location/Qualifiers
1..521
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/strain="C57BL"
/db_xref="taxon:10090"
/clone="IMAGE:1922628"
/clone_lib="Sugano mouse liver mlia"
/sex="female"
/dev_stage="adult"
/lab_host="DH10B"
(note="Organ: liver; Vector: pME185-FL3; Site_1: DraIII
(CACATGTGG); Site_2: DraIII (CACCATGTG); 1st strand cDNA
was primed with an oligo(dT) primer
[ATGTGGCTTTTTTTTTTTTTTTT]; double-stranded cDNA was
ligated to a DraIII adaptor [ATTGGCTACTGTG], digested
and cloned into distinct DraIII sites of the pME185-FL3
vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should
be used to isolate the cDNA insert. Size selection was
performed to exclude fragments <1.5kb. Library
constructed by Dr. Sumio Sugano (University of Tokyo
Institute of Medical Science). Custom primers for
sequencing: 5' end primer CTTCCTCTCTAAAAGCTGC and 3' end
primer CGACCTGACGCTCGACACA."
BASE COUNT      93 a      174 C      121 g      133 t
ORIGIN
Query Match      40.1%; Score 454; DB 47; Length 521;
Best Local Similarity 99.8%; Pred. No. 3.6e-216;
Matches 504; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy 9 ccgcgcttctgtcgcgtcaagtctccacgatccctccctaccctcccgccctccatgcc 68
Db 17 CCCGCCCTCTGTGCTCGGCTCAGTCTCCACGGATCCCCTCCCTACCTCCGCCCTCCATGCC 76
Ou 69 atcactctatgcatgaacctaaagctggcgccctgtggcattctcctcagcgcttgagg 128

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4	65	8.0	337	29	AA183497	ms71f07.i	
5	46	5.6	465	39	AA824189	vy20f02.i	
6	41	5.0	255	25	N84602	N84602	Huma
7	39	4.8	220	30	AA249064	J0222f	
8	39	4.8	232	25	N84712	m1679.seq	
9	39	4.8	330	25	N84712	J0604f	Huma
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14	30	4.8	533	51	AI815524	A0272750

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16	38	4.7	75	25	N84721	N84721	J0627F Huma
17	38	4.7	125	28	A093224	A093224	f10020.se
18	38	4.7	168	25	N55681	N55681	J0349F Huma
19	38	4.7	210	25	N83993	N83993	KK4256F Hum
20	38	4.7	220	25	N85900	N85900	J5453F Huma
21	38	4.7	232	25	N83992	N83992	KK4255F Hum
22	38	4.7	237	25	N84722	N84722	J0628F Huma
23	38	4.7	255	25	N84718	N84718	J0620F Huma
24	38	4.7	255	25	N84733	N84733	J0700F Huma
25	38	4.7	255	30	AA247827	AA247827	j0778.seg
26	38	4.7	275	25	N48874	N48874	J1358F Huma
27	38	4.7	279	28	AA094237	AA094237	c12170.se
28	38	4.7	279	30	A248551	A248551	csb1059.s
29	38	4.7	300	25	N84048	N84048	KK452F Hum
30	38	4.7	333	25	N86694	N86694	J9736F Huma
31	38	4.7	347	28	A093861	A093861	c11255.se
32	38	4.7	365	25	N56555	N56555	SH1023F Hum
33	38	4.7	440	61	A1816606	A1816606	A0272740
34	38	4.7	480	61	A1815356	A1815356	B0283660
35	38	4.7	508	61	A1816601	A1816601	A0272733
36	38	4.7	524	61	A1816607	A1816607	A0272733

8	39	61	A1816608
7	38	4.7	A1816608 A0272742
6	39	61	A1816608 A0272742
5	40	38	A1815348 R0283651
4	40	38	A1815348 R0283651
3	40	38	A1815348 R0283651
2	40	38	A1815348 R0283651
1	40	38	A1815348 R0283651

Run	Time	Iteration	Iteration	Iteration
41	38	4.7	604	61
42	38	4.7	656	61

43	38	4.7	660	61	AI815358	AI815358	B0283662
44	38	4.7	670	61	AI815358	AI815358	B0283662
45	38	4.7	680	61	AI815358	AI815358	B0283662
46	38	4.7	690	61	AI815358	AI815358	B0283662
47	38	4.7	700	61	AI815358	AI815358	B0283662
48	38	4.7	710	61	AI815358	AI815358	B0283662
49	38	4.7	720	61	AI815358	AI815358	B0283662
50	38	4.7	730	61	AI815358	AI815358	B0283662
51	38	4.7	740	61	AI815358	AI815358	B0283662
52	38	4.7	750	61	AI815358	AI815358	B0283662
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54	38	4.7	770	61	AI815358	AI815358	B0283662
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56	38	4.7	790	61	AI815358	AI815358	B0283662
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61	38	4.7	840	61	AI815358	AI815358	B0283662
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72	38	4.7	950	61	AI815358	AI815358	B0283662
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74	38	4.7	970	61	AI815358	AI815358	B0283662
75	38	4.7	980	61	AI815358	AI815358	B0283662
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78	38	4.7	1010	61	AI815358	AI815358	B0283662
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81	38	4.7	1040	61	AI815358	AI815358	B0283662
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83	38	4.7	1060	61	AI815358	AI815358	B0283662
84	38	4.7	1070	61	AI815358	AI815358	B0283662
85	38	4.7	1080	61	AI815358	AI815358	B0283662
86	38	4.7	1090	61	AI815358	AI815358	B0283662
87	38	4.7	1100	61	AI815358	AI815358	B0283662
88	38	4.7	1110	61	AI815358	AI815358	B0283662
89	38	4.7					

44	38	4.7	670	61	AI816678	AI816678	B0273532
45	38	4.7	672	61	AI815334	AI815334	B0283414

## ALIGNMENTS

RECEIVED

RESULT 1  
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LOCUS	AI466595	591 bp	mRNA	EST	09-MAR-1999
DEFINITION	mq73d12.v1	Soares	mouse embryo	Nb0613.5	14 5 Mus musculus cDNA

clone IMAGE:438647 5', mRNA sequence.  
ACCESSION AT466505

ACCESSION  
AI466595.1  
VERSION  
GI:4315214

**KEYWORDS** EST, house mouse.

ORGANISM Mus musculus  
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Mammalia.

PREFERENCE 1 (bases 1 to 501)  
Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

**AUTHORS**  
1 (Pages 1 to 391)  
Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T.,

Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y.,  
Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R.,

Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.

TITLE	DATE	TIME	LOCATION	STATUS
The WashU-NCI Mouse EST Project 1999	10/1/99	10:00 AM	WashU-NCI Mouse EST Project 1999	Completed

JOURNAL UNPUBLISHED (1999)  
COMMENT On Mar 10, 1998 this sequence version replaced g1:2948132.

Contact: Marra M/WashU-NCI Mouse EST Project 1999  
Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA

24

516

523 11:28

CAAC-111111  
Ctgr.  
8:30

[Redacted]

516 caactgt.  
523 CAAC

Qy	516	caactgtaacggttccagcaactactactatccccaacaaagc	aaagtc	caagagtc	ccaagtttgatg	575
Db	523	CAACTGTACGGTTTCAGCAACTACTCTCCACCAAGCAAGAT	CCAAAGTTTGATG	582		
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Db	583	CGGCAGCT	591			

RESULT	2	
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LOCUS		
DEFINITION	AI287088 470 bp mRNA	EST 24-NOV-1998
	u175e01.v1 Sugano mouse liver mlia Mus musculus cDNA clone	
	IMAGE:1886248 5', mRNA sequence.	
ACCESSION	AI287088	
VERSION	AI287088.1	GI:3926841
KEYWORDS	EST.	

SOURCE	ORGANISM	REFERENCE	AUTHORS
house mouse.	<i>Mus musculus</i>	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.	1 (Bases 1 to 470)
			Marr, M., Hallier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellingberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theisen, B., Wylie, T., Lennon, C., Soares, B., Wilson, R. and

**TITLE** The WashU-HHMI Mouse EST Project  
**JOURNAL** Unpublished (1996)  
**COMMENT** On Jan 19, 1998 this sequence version replaced g1:2287581.  
 Contact: Marria W/Mouse EST Project  
 WashU-HHMI Mouse EST Project  
 Washington University School  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: mouseest@watson.wustl.edu  
 This clone is available royalty-free through LLNL ; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 MGI:972572

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Seq primer: custom primer used  
High quality sequence stop: 453.  
Location/Qualifiers  
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    /organism="Mus musculus"  
    /strain="C57BL"  
    /db_xref="taxon:10090"  
    /clone_image="IMAGE:188248"  
    /clone_lib="Sugano mouse liver mila"  
    /sex="female"  
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    /lab_host="DH10B"  
    /note="Organ: liver; Vector: pMEI8S-FL3; Site_1: DraIII  
          (CACCTGTGG); site_2: DraIII (CACCATGTC); 1st strand cDNA  
          was primed with an oligo(dT) primer  
          [ATGGGCCTTTTTTTTTTTTT]; double-stranded cDNA was  
          ligated to a DraIII adaptor [TGTTGCCACTAGG], digested  
          and cloned into distinct DraIII sites of the pMEI8S-FL3  
          vector (5' site CACCTGTGG, 3' site CACCATGTC). XhoI should  
          be used to isolate the cDNA insert. Size selection was  
          performed to exclude fragments <1.5kb. Library  
          constructed by Dr. Sumio Sugano (University of Tokyo  
          Institute of Medical Science). Custom primers for  
          sequencing: 5' end primer CTTCGTCTCAAAGCTGG and 3' end  
          primer CGACCTCGACTCGACA."  
117 a   145 c   120 g      88 t
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Query Match          50.6%; Score 412; DB 44; Length 470;
Best Local Similarity 99.8%; Pred. No. 1.2e-217;
Matches 462; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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[illegible]

RESULT	3
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LOCUS	AA051068 147 bp mRNA EST
DEFINITION	mg7d12.r1 Soares mouse embryo NDME13.5 14.5 Mus musculus cDNA clone IMAGE:438647 5', mRNA sequence.
	09-SEP-1996

ACCESSION AA051068  
VERSION AA051068.1  
KEYWORDS EST. GI:1530757

SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Vertebrata; Mammalia;  
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (bases 1 to 147)  
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque  
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,  
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,  
Thelsing, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and  
Waterston, P.

**TITLE** The WashU-HHMI Mouse EST Project  
**COMMENT** Unpublished (1996)  
 On Nov 21, 1995 this sequence version replaced gi:1069968.  
 Contact: Marra M/Mouse EST Project  
 WashU-HHMI Mouse EST Project  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810

Email: [mouseest@watson.wustl.edu](mailto:mouseest@watson.wustl.edu)  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium ([info@image.llnl.gov](mailto:info@image.llnl.gov)) for further information.  
MGI:263983  
Seq primer: -28M13 rev2 from Amersham  
High quality sequence stop: 135.

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FEATURES
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:438647"
/clone_lib="Soares mouse embryo NbME13.5.14.5"

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QY 777 atttattaaacgacattctgtgagatt 803  
 Db 48 ATTTATTAAACGACATTCTGTGAGAT 22

RESULT 2  
 AA646983 457 bp mRNA 28-OCT-1997  
 LOCUS ve45a06.r1 Soares mouse mammary gland NbMMG Mus musculus cDNA clone  
 DEFINITION IMAGE:821074 5', mRNA sequence.  
 ACCESSION AA646983  
 VERSION AA646983.1 GI:2573412  
 KEYWORDS EST.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 457)  
 AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.  
 TITLE The WashU-HMI Mouse EST Project  
 JOURNAL Unpublished (1996)  
 COMMENT On Sep 12, 1996 this sequence version replaced gi:1407346.  
 Contact: Marra M/Mouse EST Project  
 WashU-HMI Mouse EST Project  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: mouseest@wustl.edu  
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
 MGI:489354  
 Seq primer: -28ml3 rev2 ET from Amersham  
 High quality sequence stop: 431.  
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 /organism="Mus musculus"  
 /strain="C57BL/6J"  
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 /clone\_lib="Soares mouse mammary gland NbMMG"  
 /sex="male"  
 /tissue\_type="mammary gland"  
 /dev\_stage="4 weeks"  
 /lab\_host="DH10B"  
 /note="Organ: mammary gland; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTACCAATCTGAAGTGGGCGCGCGGAATGTTTTTTTTTTTTTTTTTTT T 3']; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. Library constructed and normalized by Bento Soares and M.Fatima Bonaldo." 77 a 135 c 130 g 115 t

BASE COUNT 77 a 135 c 130 g 115 t  
 ORIGIN

Query Match 52.4%; Score 420.8; DB 36; Length 457;  
 Best Local Similarity 98.9%; Pred. No. 7.5e-113;  
 Matches 455; Conservative 0; Mismatches 2; Indels 3; Gaps 3;

QY 79 gggttcgcgcgcagagatggactctctgcttgggaatcgcggcggttgatctg 138  
 Db 1 GGTTCTGGCCTCGAGAGATGGACTCTCTCGGTTTGGGAATCTGCGGCGGTGATCTG 60

QY 139 tcgggaaactccctgaccagcttccaaagtcaaggcagtttgcccttcggactctc 198  
 Db 61 TCGGAAACTCCCTGACCAGCTTCCAAAGTTCAAGGCGAGTTTGG -CCTTCGAGACTCTC 119

QY 199 gacttcgcgcagaaactctctcacggccctccctcagagggtgtgtcgcagagacccctctg 258  
 Db 120 GACTTCGCCAGAAACTCTCTCACGGCCCTCCCTCAGAGGGTGTGTGCGGAGACCTCTG 179

QY 259 aggggtctgcagaccattctactcagccagaccccttactgactctgtgggtggaagga 318  
 Db 180 AGGGGTCTGCAGA -CACTACTCTGACGAGAACCCCTATGACTCTGTGGGGTGAAGA 238

QY 319 tggggggccctgcagcagcacttcacagactgttcggcacttgcctcacttgcacttgaac 378  
 Db 239 TGGGGGGCCCTGCGAGCAGCACTTCAAGACTGTTCGCGACTGTCCATGGTCACTTGCAC 298

QY 379 ctctctcccaagatcgctcgt 438  
 Db 299 CTCTCTTCCAAAGATGCTGCTGT 357

QY 439 tgggaacaggtggacactggtc 498  
 Db 358 TGGGAACAGGTGGACACTGTCT 417

QY 499 ctgctgtgctgtgactgtc 538  
 Db 418 CTGCTGTGCGCTGTACTGTCT 457

RESULT 3  
 AI505719/c  
 LOCUS vk51e08.x1 Stratagene mouse Tcell 937311 Mus musculus cDNA clone  
 DEFINITION IMAGE:958214 3', mRNA sequence.  
 ACCESSION AI505719  
 VERSION AI505719.1 GI:4403570  
 KEYWORDS EST.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
 Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE 1 (bases 1 to 381)  
 AUTHORS Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pope, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, J., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.  
 TITLE The WashU-NCI Mouse EST Project 1999  
 JOURNAL Unpublished (1999)  
 COMMENT On May 7, 1998 this sequence version replaced gi:3121530.  
 Contact: Marra M/WashU-NCI Mouse EST Project 1999  
 Washington University School of Medicine  
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA  
 Tel: 314 286 1800  
 Fax: 314 286 1810  
 Email: mouseest@wustl.edu  
 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.  
 MGI:547006  
 This clone was previously sequenced on the 5' end only, this new data is from the 3' end  
 High quality sequence stop: 366.  
 Location/Qualifiers  
 1..381  
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 /lab\_host="SOLR (kanamycin resistant)"  
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[illegible]

FEATURES	source	Location/Qualifiers
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		/clone_lib="Mouse early blastocyst cdna"
		/dev_stage="blastocyst"
BASE COUNT	113 a 190 c 133 g 139 t	
ORIGIN	3 others	





Db	517	TATTGACAACTGTACCGTTTCAGCAACTACTCATCCCAAGGCAAAAGGATCCAAGT	576
QY	570	ttgatccggcagct 584	
Db	577	TTGATGCCGCAGCT 591	
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AI287088			
LOCUS	ai175e01.v1	Sugano mouse liver mlia	Mus musculus cDNA clone
DEFINITION	IMAGE:1888248.5'	5'	24-NOV-1998
ACCESSION	AI287088		
VERSION	AI287088.1	GI:3926841	
KEYWORDS	EST.		
SOURCE	house mouse.		
ORGANISM	Mus musculus		
Eukaryote:	Metazoa:	Chordata:	Craniata: Vertebrata: Mammalia;
Eutheria:	Rodentia:	Sciurognathi:	Muridae: Murinae: Mus.
1 (bases 1 to 470)			
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T., Gelsel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.			
TITLE	The WashU-HMI Mouse EST Project		
JOURNAL	Unpublished (1996)		
COMMENT	On Jan 19, 1998 this sequence version replaced gi:2287581.		
Contact:	Maria M/Mouse EST Project		
WashU-HMI Mouse EST Project			
Washington University School of Medicine			
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108			
Tel: 314 286 1800			
Fax: 314 286 1810			
Email: mouseest@watson.wustl.edu			
This clone is available royalty-free through LNL ; contact the			
IMAGE Consortium (info@image.lnlnl.gov) for further information.			
Seq primer: custom primer used			
High quality sequence stop: 453.			
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/strain="C57BL"			
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/clone_lib="Sugano mouse liver mlia"			
/sex="female"			
/dev_stage="adult"			
/lab_host="DH10B"			
/note="Organ: liver; Vector: pME18S-FL3; Site: 1: DraIII (CACTGTG); Site: 2: DraIII (CACCATGTG); 1st strand cDNA was primed with an oligo(dT) primer [ATGTCGCTTTTTTTTTTTTTTTT]; double-stranded cDNA was ligated to a DraIII adaptor [TGTGGCTACTGG], digested and cloned into distinct DraIII sites of the pME18S-FL3 vector (5' site CACTGTG, 3' site CACCATGTG). XhoI should be used to isolate the cDNA insert. Size selection was performed to exclude fragments <1.5kb. Library constructed by Dr. Sumio Sugano (University of Tokyo Institute of Medical Science). Custom primers for sequencing: 5' end primer CTTCGTCTTAAAGCTGCG and 3' end primer CGACCTGCAGCTCGAGCACA."			
BASE COUNT	117 a	145 c	120 g
ORIGIN			88 t
Query Match	57.3%	Score 466.8:	DB 44; Length 470;
Best Local Similarity	99.6%	Pred. No 2e-105;	
Matches 468:	Conservative	0; Mismatches	2; Indels 0; Gaps 0;
QY	56	gtgcgcgagagcagctctggcgccggcggtgtgtcgtcgccgctcagggccctggga	115

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2 153 24.7 361 30 AA231372
3 40 6.5 352 46 A1418805
4 40 6.5 380 42 A1093053
5 40 6.5 380 74 AW204025
6 40 6.5 418 69 AW139820
7 40 6.5 431 63 A1978828
8 40 6.5 576 30 AA206019
9 20 3.2 291 28 AA077918
10 20 3.2 422 26 W5873
11 19 3.1 132 50 AV029631
12 19 3.1 151 51 AV049800
13 19 3.1 181 49 AV022314
14 19 3.1 243 69 AV216748
15 19 3.1 508 38 AA539250
16 19 3.1 526 87 AO797761
17 19 3.1 541 99 AQ174660
18 19 3.1 584 47 A1512971
19 19 3.1 646 74 AW185411
20 18 2.9 313 32 AA371823
21 18 2.9 333 32 AA332212
22 18 2.9 419 27 AA011366
23 18 2.9 436 23 H20808
24 18 2.9 438 31 AA292025
25 18 2.9 441 27 W82201
26 18 2.9 444 91 AQ082157
27 18 2.9 452 90 AQ007143
28 18 2.9 464 91 AQ138013
29 18 2.9 468 87 AQ815080
30 18 2.9 482 36 AA618290
31 18 2.9 501 30 AA210204
32 18 2.9 521 100 AQ335757
33 18 2.9 638 82 AQ696260
34 17 2.7 124 21 T98172
35 17 2.7 129 59 AV095728
36 17 2.7 136 45 A1331249
37 17 2.7 141 60 AV171321
38 17 2.7 142 59 AV105518
39 17 2.7 142 60 AV105075
40 17 2.7 149 59 AV073129
41 17 2.7 150 49 AV017846
42 17 2.7 154 33 AA437703
43 17 2.7 161 61 A1837213
44 17 2.7 162 59 AV105498
45 17 2.7 164 60 AV121697

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## ALIGNMENTS

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RESULT 1
C86502/c 588 bp mRNA EST 11-MAR-1998
LOCUS C86502 Mouse fertilized one-cell-embryo CDNA Mus musculus cDNA
DEFINITION clone J0227610 3', mRNA sequence.
ACCESSION C86502
VERSION C86502.1 GI:2918459
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 588)
Ko.M.S.H. Kitchen, J.R., Wang, X., Threat, T.A., Sun, T.,
DePalma, G.E., Liang, Y., Kargul, G.J., Sharara, R., Paonessa, P.D. and
Dol, H.
Systematic analyses of genes expressed in fertilized mouse eggs (The
ERATO/Dol Project at Wayne State University)
Unpublished (1998)
On Sep 12, 1996 this sequence version replaced gi:1407150.
Contact: Hirofumi Dol
Dol Biosymmetry Project, ERATO
Japan Science and Technology Corporation (JST)
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Email: hd@bioa.jst.go.jp.
FEATURES
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/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="J0227610"
/clone.lib="Mouse fertilized one-cell-embryo cDNA"
/dev stage="fertilized one-cell-embryo"
BASE COUNT 145 a 134 c 193 g 112 t 4 others
ORIGIN
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Best Local Similarity 100.0%; Pred. No. 1.1e-163;
Matches 322; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 298 agggagggccagtcattctcttgagtaggggtgaagggcctccattccctctcgaagtg 357
Db 391 AGGAGGGCCAGTCTCATCTTCTGAGTAGGGGTGAAGGCCCTCCATTCCTCGAAAGTG 332
QY 358 gacggtctctctgctcttaccatttgcaaggtccatgctcttcaggctgatgcct 417
Db 331 GACGGGTCTCTCTGCTCTTACCTTTGCAAGGTCCATGCTCTTCAGGCTGATGCCCT 272
QY 418 ctgggtgctgattgctactggcccaattataggcagctcctctagctgctcatttagca 477
Db 271 CTGGGTGCTGATTGCTACTGGGCCAATATATAGGCGAGCTCCCTAGTCTGCCATCTAGCA 212
QY 478 gccaatccagtgccctgacctgaagcagggcctctaatgtttgccatactctctccc 537
Db 211 GCCATCCAGTGGCCCTGACCATGAAGCAGGCCCTAATGTTGGCATACTTCTCTCC 152
QY 538 cagcagcccaatgaagccagggggaatggcctaccatccctcgaagggctctctc 597
Db 151 CAGCAGCCCAATGAAGCCAGGGGAAATGGCTACCATCCCTTAAGCCAGGGCTCTCTC 92
QY 598 ctgttgcccaagggccactta 619
Db 91 CTGTGTCCTGAGGCCCACTTA 70
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AA231372
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DEFINITION mw30g08.r1 Soares mouse 3NWE12 5 Mus musculus cDNA clone
IMAGE:672254 5', mRNA sequence.
ACCESSION AA231372
VERSION AA231372.1 GI:1853670
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 361)
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Willson, R. and
Waterston, R.
TITLE The WashU-HMI Mouse EST Project
JOURNAL Unpublished (1996)
COMMENT On May 18, 1995 this sequence version replaced gi:810982.
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IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:411958

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24 17:26:18